

**Preparation of supported catalyst systems****Abstract**

5     The present invention relates to a process for preparing a catalyst solid for olefin polymerization which is obtainable by bringing

A)    at least one organic transition metal compound,

10   B)   at least one organometallic compound,

C)    at least one organic compound having at least one functional group containing active hydrogen,

15   D)   at least one Lewis base and

E)    at least one support,

20     into contact with one another, wherein the components are combined in any order without any work-up of the mixtures present at intermediate stages being carried out. In addition, the invention relates to the use of the catalyst solid for olefin polymerization, to catalyst solids obtainable by this process, to catalyst systems in which these catalyst solids are present and to a process for the polymerization of olefins in which these catalyst solids are used.

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